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**United States Patent [19]**

Okubo et al.

[11] Patent Number: **5,287,069**[45] Date of Patent: **Feb. 15, 1994****[54] CONSTANT-AMPLITUDE WAVE COMBINATION TYPE AMPLIFIER**

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**[30] Foreign Application Priority Data**

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332/124 R; 332/149

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**[57] ABSTRACT**

A constant-amplitude wave combination type amplifier includes a first amplifier outputting a first amplified output, and a second amplifier outputting a second amplified output. The constant-amplitude wave combination type amplifier also includes a first constant-amplitude wave generating circuit for combining an input wave and the second amplified output from the second amplifier and for generating a first constant-amplitude wave which is input to the first amplifier, and a second constant-amplitude wave generating circuit for combining the input wave and the first amplified output from the first amplifier and for generating a second constant-amplitude wave. Further, the constant-amplitude wave combination type amplifier includes a wave combining circuit for combining the first and second constant-amplitude waves and for generating an output wave.

**44 Claims, 26 Drawing Sheets**

